

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SA800EA

This Certificate issued to Whelen Engineering Company, Inc.
Route 145, Winthrop Road
Chester, Connecticut 06412-0684

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 3, 6, 23, 27 of the Civil Air/Federal Aviation Regulations.

Original Product Type Certificate Number: See Attached Eligibility List dated September 8, 1999

Make:

Model:

Description of Type Design Change:

Installation of Whelen Anti-Collision Strobe Light System, Part Numbers 01-0770019-(), 01-0770024-(), 01-0770030-(), 01-0770031-(), 01-0770032-(), 01-0770053-(), 01-0770054-(), and 01-0770058-(), and applicable associated power supplies, in accordance with Whelen Anti-Collision Light Systems Installation and Service Manual, May 2005, Document No. 05131, Rev -, or later FAA-approved revision.

Limitations and Conditions:

(See continuation sheet 2 of 8)

The STC holder will provide each person it permits to use this certificate to alter the product written evidence of the agreement in a form acceptable to the Administrator.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 2, 1969

Date reissued:

Date of issuance: November 14, 1969

Date amended: June 17, 2005

See page 3 for amendment history.



By direction of the Administrator

(Signature)

Richard B. Noll
Manager, Boston Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

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Date Amended: June 17, 2005

Limitations and Conditions (Continued):

1. The Anti-Collision Lights listed under Description of Type Design Change meet the requirements of FAR 23 and the similarly numbered sections of FAR 27 as follows:
 - a. 23.1397(c), 23.1401(c), (d), (e), effective August 11, 1971
 - b. 23.1401(f) in effect on August 10, 1971.
 - c. Part numbers 01-0770019-19 and 01-0770019-22 with power supplies approved under STC SA615EA meet FAR 23.1401(f) effective August 11, 1971.
 - d. Part numbers 01-0770054-00 through 01-0770054-07, 01-0770058-03, and 01-0770058-13 with power supplies producing a minimum of 20 joules per flash meet FAR 23.1401(f) effective August 11, 1971.
2. To complete the approval of these lights as anti-collision light systems, the installations on individual aircraft must be checked to show compliance with FAR 23.1401(b) (Field of Coverage); unless the "Anti-Collision Light Systems Installation and Service Manual", Document 05131, Rev -, or later FAA approved revision, specifically indicates that a particular installation has been checked for compliance with the aforementioned sub-section.

NOTE: The aforementioned installation and Service Manual contains an acceptable method for checking the adequacy of coverage when using two lights (wing tips) or three lights (wing tips and tail lights). For some other acceptable methods, see Advisory Circular AC 43.13-2, Chapter 4, Paragraph 46b(2). Installations made in accordance with STC SA800EA Amendments prior to 9/14/71 need only be checked for obstructed visibility to meet anti-collision light requirements.

3. Install the following placard, Whelen Part No. A421-1, or other FAA approved equivalent, in view of the pilot:

WARNING

TURN OFF STROBE LIGHTS WHEN TAXING IN VICINITY OF OTHER
AIRCRAFT OR DURING FLIGHT THROUGH CLOUDS, FOG OR HAZE.
STANDARD POSITION LIGHTS TO BE ON FOR ALL NIGHT OPERATIONS.

4. On all helicopter installations, install the following placard in view of the pilot:

THE WHITE STROBE LIGHT MUST BE TURNED OFF
DURING ALL NIGHT TAKEOFFS AND LANDINGS.

5. The modifications approved by this STC can be installed in conjunction with those approved by STC SA615EA or STC SA738EA as delineated in the "Anti-Collision Light Systems Installation and Service Manual", Document 05131, Rev -, or later FAA approved revision.

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Limitations and Conditions (Continued):

6. On Mitsubishi MU-2B, MU-2B-10, -20, -15, -30 aircraft: Whelen's Mitsubishi MU-2B, -10, -20, -15, -30 Wing Tip and Tail Strobe Light Installation Procedure", dated 19 February 1971, is required in addition to the "Anti-Collision Light Systems Installation and Service Manual", Document 05131, Rev -, or later FAA approved revision.
7. This approval should not be incorporated in any aircraft for these specific models on which other approved modifications are incorporated, unless it is determined that the interrelationship between this change and any of those previously incorporated approved modifications will not introduce any adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2, Chapter 4, Paragraph 42A.

NOTE: Aircraft whose application for type certification was made before April 1, 1957, may but need not, comply with the field of coverage requirements of FAR 23(27).1401(b). Compliance with FAR 91.33(c) may be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and applicable criteria of Advisory Circular 43.13-2 are met.

AMENDMENT HISTORY:

This STC has been previously amended on the following dates:

11/20/69; 4/23/70, 12/10/70; 5/26/71, 9/14/71; 5/18/72, 9/22/72, 11/7/72; 7/21/76, 7/30/76; 12/30/77; 2/21/78, 10/4/78; 5/17/79; 3/26/81, 8/5/81, 8/25/81; 5/21/82; 7/16/91; 11/22/93; 6/7/99; 6/18/99; 9/8/99

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ELIGIBILITY LIST
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AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Aero Commander	*100, 100-180	1A21
	111	A11SO
	112	A12SO
	500, 500A, 500B, 500-S, 500-U, 520, 560, 560A, 560E	6A1
	560F, 680, 680E, -F, 720 680FL, 680FL(P), 680T, V, W, 681, 690, 685	2A4
American Aviation	*AA-1, *AA-1A	A11EA
	AA-5	A16EA
Beech	23, A23, A23A, A23-19, -24, -19A, B19, M19A, B23, C23 A24, A24R	A1CE
	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777
	H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 35-33 35-A33, 35-B33, 35-C33, 35-C33A, 36, A36, E33, E33A, E33C, F33, F33A, F33C	3A15
	50(L-23A), B50(L-23B), C50 D50(L-23E, D50A, D50B, D50C, D50E, E50(L-23D, RL-23D), F50, G50, H50, J50	5A4
	95-55, 95-A55, 95-B55 95-B55B(T-42A), 95-B55D, 95C55, 95, B95, B95A, D95A, E95, D55, D55A, E55, E55A, 56TC, A56TC, 58	3A16

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AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Beech (Cont'd)	65(L-23F), A65, A65-8200, 65-80, 65-A80, 65-A80-8800, 65-B80, 65-88, B90, C90, 65-90, 65-A90, 65-A90-1, (U-21A, RU-21A, RU-21D), 65-A90-2, (RU-21B), 65-A90-3, (RU-21C), 70	3A20
	60, A60	A12CE
	99, 99A, 100	A14CE
Bellanca	14-19-3A, 17-30, 17-30A, 17-31A, 17-31ATC	1A3
	7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KCAB	A-759
Bell	206A, 206B, 206L, 206L-1, 206L-3, 206L-4, 407	H2SW
	47B, B3, D, D1, E, C, C-2, H-1	H-1
	47G-2A, -2A-1, -3, -3B, -3B-1, -3B-27, -4, -4A, -5, -5A	2H3
	47J, K, J-2, J-2A	2H1
Britten Norman	BN-2, -2A, -2A-2, -2A-6, -2A-8	A17EU
	BN-2A, MK.III	A29EU
Cessna	120, 140	A-768
	140A	5A2
	150, 150A, B, C, D, E, F, G, H, J, K, L, M, A150K, A150L, A150M, 152, A152	3A19

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AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Cessna (Cont'd)	170, 170A, 170B	A-799
	172, 172A, B, C, D, E, F, G, H, I, K, L, M, N, P	3A12
	175, 175A, B, D, P172D 172RG	3A17
	177, 177A, B	A13CE
	177RG	A20CE
	180, 180A, B, C, D, E, F, G, H, J, K	5A6
	182, 182A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, T182, R182, TR182	3A13
	185, 185A, B, C, D, E, A185E, A185F	3A24
	188, 188A, B, A188, A188A, 188B, T188C	A9CE
	190, 195, 195A, B	A-790
	206, P206, P206A, B, C, D, E, TU206A, B, C, D, E, F, G, TP206A, B, C, D, E, U206, U206A, B, C, D, E, F, G	A4CE
	207, 207A, T207, T207A	A16CE
	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, 210-5(205), 210-5A(205A), T210K, 210L, T210L, T210M, T210N, 210N, P210N	3A21

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<u>AIRCRAFT MANUFACTURER</u>	<u>MODEL</u>	<u>TYPE CERTIFICATE</u>
Cessna (Cont'd)	310, 310A, B, C, D, E, F, G, H, I, J, 310J-1, E310J, 310K, L, N, P, T310P, 310Q, T310Q	3A10
	*320, A, B, C, D, E, F, 320-1, 340, 340A	3A25
	*336	A2CE
	337, 337A, B, C, D, T337D, 337E, T337E, 337F, T337F, T337G	A6CE
	*401, 401A, B, 402A, B, 411, 411A, 421, 421A, 414, 421B	A7CE
DeHavilland of Canada	DHC-2 MK. I, MK. II, MK. III	A-806
	DHC-3	A-815
	DHC-6, Models 1, 100, 110, 200, 210, 300	A9EA
Fairchild Hiller	FH-1100	H2WE
Grumman	G-164, G-164A, G-164B	1A16
Helio	H-250, H-295, H-391, H-391B, H-395, H-395A	1A8
Hughes	269A, 269A-1, 269B, 269C	4H12
Piper	**PA-11	A-691
	**PA-12	A-780
	**PA-14	A-797
	**PA-15	A-800

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AIRCRAFT MANUFACTURER	MODEL	TYPE CERTIFICATE
Piper (Cont'd)	**PA-16	1A1
	**PA-17	A-805
	**PA-18 Series, PA-19	1A2
	**PA-20	1A4
	**PA-22 Series	1A6
	**PA-25 Series	2A8
	PA-23, PA-23-160, *PA-23-235	1A10
	*PA-23-250, *PA-E23-250	
	PA-24, -24-250, -24-260, -24-400	1A15
	PA-28-140, -28-150, -28-151, -28-160, -28-161, 28-180, -28-235, -28S-160, -28R-180, -28S-180, -28-181, -28R-200, -28R-201, -28R-201T, -28RT-201, -28RT-201T, -28-201T, -28-236	2A13
	PA-30, PA-39	A1EA
	PA-31P	A8EA
	PA-31, PA-31-300, 325, 350	A20SO
Mooney	PA-32-260, PA-32-300, -32S-300	A3SO
	M20B, C, D, E, F, G	2A3
Mitsubishi	MU-2B, MU-2B-10, -15, -20, -30	A2PC
Univair (Stinson)	108, 108-1, -2, -3, -5	A-767

NOTES TO ELIGIBILITY LIST:

*1. Aircraft as marked require specific attention to proper balancing of the rudder. Refer to the Manufacturer's Service Manual for balancing instructions.

**2. Installations on these aircraft require prior or concurrent installation of STC SA4-977.